RAILS is funded by the Institute for Museum and Library Services. RAILS operates in partnership with the ACRL Assessment Immersion Program, is augmented by Waypoint Outcomes, and is located at Syracuse University’s iSchool.

The Institute of Museum and Library Services (IMLS) is the primary source of federal support for the nation’s 123,000 libraries and 17,500 museums. The Institute’s mission is to create strong libraries and museums that connect people to information and ideas.
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Background

The Project

Rubric Assessment of Information Literacy Skills (RAILS) is an IMLS-funded research project designed to investigate an analytic rubric approach to information literacy assessment in higher education. The RAILS project aided academic librarians and disciplinary faculty in their efforts to assess information literacy outcomes. From 2010 to 2014, RAILS generated a suite of rubrics that can be used by academic librarians and disciplinary faculty to assess information literacy outcomes; a transferable model for analyzing rubric scores; training materials for librarians, faculty, and library and information science (LIS) students who seek to use rubrics for information literacy assessment; indicators of rater expertise in rubric scoring; and a clearinghouse for librarians and faculty to share:

- Local adaptations of information literacy (IL) rubrics,
- Rubric assessment results, improvements to instructional strategies and services made on the basis of those results, and
- Examples of increased student learning resulting from instructional improvements.
Research Questions

Although RAILS addressed practical assessment issues, it also explored five research questions:

- Can librarians & disciplinary faculty use IL rubrics to provide valid & reliable scores of student learning?
- What skills/characteristics do librarians & faculty need to produce valid & reliable scores using IL rubrics?
- What training materials do librarians & faculty need to acquire these skills/characteristics?
- How can rubric assessment be used to improve IL instruction and services?
- How can rubric assessment increase student learning of IL skills?
### Institution 4 Rubric

<table>
<thead>
<tr>
<th></th>
<th>Performance Level 3 Student:</th>
<th>Performance Level 2 Student:</th>
<th>Performance Level 1 Student:</th>
</tr>
</thead>
<tbody>
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<td>22%</td>
<td>65%</td>
<td>13%</td>
</tr>
<tr>
<td>Follows style guide conventions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>with few errors</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Correspondence of bibliography</strong></td>
<td>39%</td>
<td>53%</td>
<td>8%</td>
</tr>
<tr>
<td>and in-text citations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>correspond</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Common knowledge and attribution of ideas</strong></td>
<td>33%</td>
<td>59%</td>
<td>8%</td>
</tr>
<tr>
<td>Consistently distinguishes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>between common knowledge and ideas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>requiring attribution</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Paraphrasing, summarizing, quoting</strong></td>
<td>43%</td>
<td>53%</td>
<td>4%</td>
</tr>
<tr>
<td>Summarizes, paraphrases, or quotes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>in order to integrate the work of</td>
<td></td>
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<tr>
<td>others into their own</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Correspondence of bibliography</strong></td>
<td>39%</td>
<td>53%</td>
<td>8%</td>
</tr>
<tr>
<td>and in-text citations</td>
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<tr>
<td>correspond</td>
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<td><strong>Inconsistently distinguishes</strong></td>
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<td>between common knowledge and ideas</td>
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<td>requiring attribution</td>
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<tr>
<td><strong>Paraphrasing, summarizing, quoting</strong></td>
<td>43%</td>
<td>53%</td>
<td>4%</td>
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<td>Summarizes, paraphrases, or quotes</td>
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<td>in order to integrate the work of</td>
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<tr>
<td>others into their own</td>
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<tr>
<td><strong>Does not follow style guide</strong></td>
<td></td>
<td></td>
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<tr>
<td>conventions with frequent errors</td>
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<tr>
<td><strong>Does not include a functional</strong></td>
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<tr>
<td>bibliography and/or in-text citations</td>
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<tr>
<td>correspond</td>
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<tr>
<td><strong>Does not distinguish</strong></td>
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<td>between common knowledge and ideas</td>
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<td>requiring attribution</td>
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<td><strong>Does not summarize, paraphrase, or quote</strong></td>
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<tr>
<td>others into their own</td>
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</tbody>
</table>
Results

Criteria Summary

Performance level, criteria

This bar graph shows an institution’s average RAILS rubric criteria scores.
This figure shows all student scores from the maximum possible score to the minimum.
Student Scores by Criteria

Performance level, criteria

This series shows performance levels raters assigned students, displayed by RAILS rubric criteria, shown in color. Figure 1 shows colored bars to represent student scores for each RAILS rubric criteria. The vertical axis shows all students and the horizontal axis lists all criteria, sorted from highest to lowest score. This is the most detailed depiction of all student information of all the figures. Figure 2 shows average student scores sorted from highest to lowest by criteria.

**Figure 1**

<table>
<thead>
<tr>
<th>Student Scores by Criteria</th>
<th>Common knowledge and attribution of ideas</th>
<th>Corresponde</th>
<th>Style conventions</th>
<th>Summarizing, paraphrasing, quoting</th>
<th>Total</th>
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<td>4005</td>
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<td>4012</td>
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<td>4039</td>
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<td>4044</td>
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</tbody>
</table>
Figure 2

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Scores</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access the Needed Information</td>
<td>![Score 1]</td>
</tr>
<tr>
<td>Determine Key Concepts</td>
<td>![Score 2]</td>
</tr>
<tr>
<td>Retrieves Relevant Information</td>
<td>![Score 3]</td>
</tr>
</tbody>
</table>
Student #: RAILS Rubric Criteria

Inter-rater reliability

This graph shows what performance levels all raters (A-L) assigned each student, showing the variation among raters. There is a chart for each student for each RAILS rubric criteria.

**Student 1: Common Knowledge and Attribution of Ideas**

**Student 2: Common Knowledge and Attribution of Ideas**
Student 3: Common Knowledge and Attribution of Ideas

Student 4: Common Knowledge and Attribution of Ideas

Student 5: Common Knowledge and Attribution of Ideas
Student 6: Common Knowledge and Attribution of Ideas

Rubric Score

Student 7: Common Knowledge and Attribution of Ideas

Rubric Score

Student 8: Common Knowledge and Attribution of Ideas

Rubric Score
Student 9: Common Knowledge and Attribution of Ideas

Rubric Score

Rater

4A 4A2 4B 4C 4D 4E 4F 4G 4H 4J 4K 4L

Student 10: Common Knowledge and Attribution of Ideas

Rubric Score

Rater

4A 4A2 4B 4C 4D 4E 4F 4G 4H 4J 4K 4L

Student 11: Common Knowledge and Attribution of Ideas

Rubric Score

Rater

4A 4A2 4B 4C 4D 4E 4F 4G 4H 4J 4K 4L
Student 12: Common Knowledge and Attribution of Ideas

Rubric Score

Student 13: Common Knowledge and Attribution of Ideas

Rubric Score

Student 14: Common Knowledge and Attribution of Ideas

Rubric Score
Student 18: Common Knowledge and Attribution of Ideas

Student 19: Common Knowledge and Attribution of Ideas

Student 20: Common Knowledge and Attribution of Ideas
Student 21: Common Knowledge and Attribution of Ideas

Rubric Score

Student 22: Common Knowledge and Attribution of Ideas

Rubric Score

Student 23: Common Knowledge and Attribution of Ideas

Rubric Score
Student 24: Common Knowledge and Attribution of Ideas

Student 25: Common Knowledge and Attribution of Ideas

Student 26: Common Knowledge and Attribution of Ideas
Student 27: Common Knowledge and Attribution of Ideas

Student 28: Common Knowledge and Attribution of Ideas

Student 29: Common Knowledge and Attribution of Ideas
Student 30: Common Knowledge and Attribution of Ideas

Student 31: Common Knowledge and Attribution of Ideas

Student 32: Common Knowledge and Attribution of Ideas
Student 33: Common Knowledge and Attribution of Ideas

Rubric Score

Rater

Student 34: Common Knowledge and Attribution of Ideas

Rubric Score

Rater

Student 35: Common Knowledge and Attribution of Ideas

Rubric Score

Rater
Student 39: Common Knowledge and Attribution of Ideas

Rubric Score

Rater

Student 40: Common Knowledge and Attribution of Ideas

Rubric Score

Rater

Student 41: Common Knowledge and Attribution of Ideas

Rubric Score

Rater
Student 42: Common Knowledge and Attribution of Ideas

Student 43: Common Knowledge and Attribution of Ideas

Student 44: Common Knowledge and Attribution of Ideas
Student 45: Common Knowledge and Attribution of Ideas

Student 46: Common Knowledge and Attribution of Ideas

Student 47: Common Knowledge and Attribution of Ideas
Student 51: Common Knowledge and Attribution of Ideas

Student 52: Common Knowledge and Attribution of Ideas

Student 53: Common Knowledge and Attribution of Ideas
Student 54: Common Knowledge and Attribution of Ideas

Student 55: Common Knowledge and Attribution of Ideas

Student 56: Common Knowledge and Attribution of Ideas
Student 57: Common Knowledge and Attribution of Ideas

Student 58: Common Knowledge and Attribution of Ideas

Student 59: Common Knowledge and Attribution of Ideas
Student 60: Common Knowledge and Attribution of Ideas

Rubric Score vs Rater

Student 61: Common Knowledge and Attribution of Ideas

Rubric Score vs Rater

Student 62: Common Knowledge and Attribution of Ideas

Rubric Score vs Rater
Student 63: Common Knowledge and Attribution of Ideas

Student 64: Common Knowledge and Attribution of Ideas

Student 65: Common Knowledge and Attribution of Ideas
Student 66: Common Knowledge and Attribution of Ideas

Student 67: Common Knowledge and Attribution of Ideas

Student 68: Common Knowledge and Attribution of Ideas
Student 69: Common Knowledge and Attribution of Ideas

Student 70: Common Knowledge and Attribution of Ideas

Student 71: Common Knowledge and Attribution of Ideas
Student 72: Common Knowledge and Attribution of Ideas

Student 73: Common Knowledge and Attribution of Ideas

Student 74: Common Knowledge and Attribution of Ideas
Student 75: Common Knowledge and Attribution of Ideas

Student 76: Common Knowledge and Attribution of Ideas

Student 77: Common Knowledge and Attribution of Ideas
Student 78: Common Knowledge and Attribution of Ideas

Student 79: Common Knowledge and Attribution of Ideas

Student 80: Common Knowledge and Attribution of Ideas
Student 81: Common Knowledge and Attribution of Ideas

Rubric Score

Student 82: Common Knowledge and Attribution of Ideas

Rubric Score

Student 83: Common Knowledge and Attribution of Ideas

Rubric Score
Student 84: Common Knowledge and Attribution of Ideas

Student 85: Common Knowledge and Attribution of Ideas

Student 86: Common Knowledge and Attribution of Ideas
Student 90: Common Knowledge and Attribution of Ideas

Student 91: Common Knowledge and Attribution of Ideas

Student 92: Common Knowledge and Attribution of Ideas
Student 99: Common Knowledge and Attribution of Ideas

Student 100: Common Knowledge and Attribution of Ideas

Student 1: Correspondence
Student 2: Correspondence

Student 3: Correspondence

Student 4: Correspondence
Student 14: Correspondence

Student 15: Correspondence

Student 16: Correspondence
Student 26: Correspondence

Student 27: Correspondence

Student 28: Correspondence
Student 29: Correspondence

Rubric Score vs. Rater

Student 30: Correspondence

Rubric Score vs. Rater

Student 31: Correspondence

Rubric Score vs. Rater
Student 32: Correspondence

Rubric Score

Student 33: Correspondence

Rubric Score

Student 34: Correspondence

Rubric Score
Student 38: Correspondence

Student 39: Correspondence

Student 40: Correspondence
Student 41: Correspondence

Student 42: Correspondence

Student 43: Correspondence
Student 47: Correspondence

Student 48: Correspondence

Student 49: Correspondence
Student 50: Correspondence

Student 51: Correspondence

Student 52: Correspondence
Student 53: Correspondence

Student 54: Correspondence

Student 55: Correspondence
Student 59: Correspondence

Student 60: Correspondence

Student 61: Correspondence
Student 65: Correspondence

Student 66: Correspondence

Student 67: Correspondence
### Student 71: Correspondence

- Rubric Score: 2

### Student 72: Correspondence

- Rubric Score: 3

### Student 73: Correspondence

- Rubric Score: 3
Student 74: Correspondence

Student 75: Correspondence

Student 76: Correspondence
Student 89: Correspondence

Student 90: Correspondence

Student 91: Correspondence
Student 92: Correspondence

Rubric Score

Student 93: Correspondence

Rubric Score

Student 94: Correspondence

Rubric Score
Student 98: Correspondence

Student 99: Correspondence

Student 100: Correspondence
Student 1: Style Conventions

Student 2: Style Conventions

Student 3: Style Conventions
Student 7: Style Conventions

Student 8: Style Conventions

Student 9: Style Conventions
Student 10: Style Conventions

Student 11: Style Conventions

Student 12: Style Conventions
Student 16: Style Conventions

Student 17: Style Conventions

Student 18: Style Conventions
Student 25: Style Conventions

Student 26: Style Conventions

Student 27: Style Conventions
Student 31: Style Conventions

Rubric Score vs. Rater

Student 32: Style Conventions

Rubric Score vs. Rater

Student 33: Style Conventions

Rubric Score vs. Rater
Student 46: Style Conventions

Rubric Score

4A 4A2 4B 4C 4D 4E 4F 4G 4H 4J 4K 4L

Student 47: Style Conventions

Rubric Score

4A 4A2 4B 4C 4D 4E 4F 4G 4H 4J 4K 4L

Student 48: Style Conventions

Rubric Score

4A 4A2 4B 4C 4D 4E 4F 4G 4H 4J 4K 4L
Student 49: Style Conventions

Student 50: Style Conventions

Student 51: Style Conventions
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Student 53: Style Conventions

Student 54: Style Conventions
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Student 56: Style Conventions

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Student 61: Style Conventions

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Student 63: Style Conventions
Student 64: Style Conventions

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Student 68: Style Conventions

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Student 82: Style Conventions

Student 83: Style Conventions

Student 84: Style Conventions
Student 85: Style Conventions

Student 86: Style Conventions

Student 87: Style Conventions
Student 88: Style Conventions

Rubric Score vs. Rater

Student 89: Style Conventions

Rubric Score vs. Rater

Student 90: Style Conventions

Rubric Score vs. Rater
Student 91: Style Conventions

Rubric Score

Student 92: Style Conventions

Rubric Score

Student 93: Style Conventions

Rubric Score
Student 94: Style Conventions

Student 95: Style Conventions

Student 96: Style Conventions
Student 97: Style Conventions

Rubric Score

Student 98: Style Conventions

Rubric Score

Student 99: Style Conventions

Rubric Score
Student 3: Summarizing, Paraphrasing, Quoting

Rubric Score

Student 4: Summarizing, Paraphrasing, Quoting

Rubric Score

Student 5: Summarizing, Paraphrasing, Quoting

Rubric Score
Student 6: Summarizing, Paraphrasing, Quoting

Student 7: Summarizing, Paraphrasing, Quoting

Student 8: Summarizing, Paraphrasing, Quoting
Student 9: Summarizing, Paraphrasing, Quoting

Student 10: Summarizing, Paraphrasing, Quoting

Student 11: Summarizing, Paraphrasing, Quoting
Student 12: Summarizing, Paraphrasing, Quoting

Rubric Score

0 1 2 3

Rater

Student 13: Summarizing, Paraphrasing, Quoting

Rubric Score

0 1 2 3

Rater

Student 14: Summarizing, Paraphrasing, Quoting

Rubric Score

0 1 2 3

Rater
Student 15: Summarizing, Paraphrasing, Quoting

Student 16: Summarizing, Paraphrasing, Quoting

Student 17: Summarizing, Paraphrasing, Quoting
<table>
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</tbody>
</table>
Student 24: Summarizing, Paraphrasing, Quoting

Student 25: Summarizing, Paraphrasing, Quoting

Student 26: Summarizing, Paraphrasing, Quoting
Student 27: Summarizing, Paraphrasing, Quoting

Student 28: Summarizing, Paraphrasing, Quoting

Student 29: Summarizing, Paraphrasing, Quoting
Student 30: Summarizing, Paraphrasing, Quoting

Student 31: Summarizing, Paraphrasing, Quoting

Student 32: Summarizing, Paraphrasing, Quoting
Student 33: Summarizing, Paraphrasing, Quoting

Student 34: Summarizing, Paraphrasing, Quoting

Student 35: Summarizing, Paraphrasing, Quoting
Student 36: Summarizing, Paraphrasing, Quoting

Student 37: Summarizing, Paraphrasing, Quoting

Student 38: Summarizing, Paraphrasing, Quoting
Student 39: Summarizing, Paraphrasing, Quoting

Student 40: Summarizing, Paraphrasing, Quoting

Student 41: Summarizing, Paraphrasing, Quoting
Student 42: Summarizing, Paraphrasing, Quoting

Rubric Score

Rater

Student 43: Summarizing, Paraphrasing, Quoting

Rubric Score

Rater

Student 44: Summarizing, Paraphrasing, Quoting

Rubric Score

Rater
Student 45: Summarizing, Paraphrasing, Quoting

Student 46: Summarizing, Paraphrasing, Quoting

Student 47: Summarizing, Paraphrasing, Quoting
Student 48: Summarizing, Paraphrasing, Quoting

Student 49: Summarizing, Paraphrasing, Quoting

Student 50: Summarizing, Paraphrasing, Quoting
Student 51: Summarizing, Paraphrasing, Quoting

Student 52: Summarizing, Paraphrasing, Quoting

Student 53: Summarizing, Paraphrasing, Quoting
Student 54: Summarizing, Paraphrasing, Quoting

Student 55: Summarizing, Paraphrasing, Quoting

Student 56: Summarizing, Paraphrasing, Quoting
Student 57: Summarizing, Paraphrasing, Quoting

Student 58: Summarizing, Paraphrasing, Quoting

Student 59: Summarizing, Paraphrasing, Quoting
Student 63: Summarizing, Paraphrasing, Quoting

Student 64: Summarizing, Paraphrasing, Quoting

Student 65: Summarizing, Paraphrasing, Quoting
Student 66: Summarizing, Paraphrasing, Quoting

Student 67: Summarizing, Paraphrasing, Quoting

Student 68: Summarizing, Paraphrasing, Quoting
Student 69: Summarizing, Paraphrasing, Quoting

Student 70: Summarizing, Paraphrasing, Quoting

Student 71: Summarizing, Paraphrasing, Quoting
Student 72: Summarizing, Paraphrasing, Quoting

Rubric Score

Student 73: Summarizing, Paraphrasing, Quoting

Rubric Score

Student 74: Summarizing, Paraphrasing, Quoting

Rubric Score
Student 75: Summarizing, Paraphrasing, Quoting

Student 76: Summarizing, Paraphrasing, Quoting

Student 77: Summarizing, Paraphrasing, Quoting
Student 78: Summarizing, Paraphrasing, Quoting

Student 79: Summarizing, Paraphrasing, Quoting

Student 80: Summarizing, Paraphrasing, Quoting
Student 84: Summarizing, Paraphrasing, Quoting

Student 85: Summarizing, Paraphrasing, Quoting

Student 86: Summarizing, Paraphrasing, Quoting
Student 87: Summarizing, Paraphrasing, Quoting

Student 88: Summarizing, Paraphrasing, Quoting

Student 89: Summarizing, Paraphrasing, Quoting
Student 93: Summarizing, Paraphrasing, Quoting

Student 94: Summarizing, Paraphrasing, Quoting

Student 95: Summarizing, Paraphrasing, Quoting
Student 96: Summarizing, Paraphrasing, Quoting

Student 97: Summarizing, Paraphrasing, Quoting

Student 98: Summarizing, Paraphrasing, Quoting
Student/Rater: Average Rater Scores by Criteria

Inter-rater reliability

This graph shows the average performance level each rater assigned all students for each RAILS rubric criteria, showing the variation among raters when each graph is compared. There is a chart for each rater.

4A: Average Rater Scores by Criteria

4A2: Average Rater Scores by Criteria
### 4D: Average Rater Scores by Criteria

- Common knowledge and attribution of ideas
- Correspondence
- Style conventions
- Summarizing, paraphrasing, quoting

### 4E: Average Rater Scores by Criteria

- Common knowledge and attribution of ideas
- Correspondence
- Style conventions
- Summarizing, paraphrasing, quoting
4F: Average Rater Scores by Criteria

Common knowledge and attribution of ideas
Correspondence
Style conventions
Summarizing, paraphrasing, quoting

4G: Average Rater Scores by Criteria

Common knowledge and attribution of ideas
Correspondence
Style conventions
Summarizing, paraphrasing, quoting
4H: Average Rater Scores by Criteria

- Common knowledge and attribution of ideas
- Correspondence
- Style conventions
- Summarizing, paraphrasing, quoting

4J: Average Rater Scores by Criteria

- Common knowledge and attribution of ideas
- Correspondence
- Style conventions
- Summarizing, paraphrasing, quoting
Summarizing, paraphrasing, quoting

Style conventions
Correspondence
Common knowledge and attribution of ideas
RAILS Rubric Criteria

Inter-rater reliability

This graph shows the average score each rater assigned all students for each RAILS rubric criteria. There is a chart for each criterion.

**Common Knowledge and Attribution of Ideas**

**Correspondence**